

Claims

- 5 1. Optical recording medium comprising an active layer (2) of inorganic material able to undergo deformations due to the effect of an optical radiation, presenting a front face (3) designed to receive an optical radiation (4) during writing operations, and a rear face (5), medium characterized in that it comprises an additional metal layer (6) arranged on the rear face (5) of the active layer (2).
- 10 2. Recording medium according to claim 1, characterized in that the additional metal layer (6) has a thickness comprised between 9 nanometers and 12 nanometers.
- 15 3. Recording medium according to one of the claims 1 and 2, characterized in that the material of the additional metal layer (6) is taken from the group comprising aluminium, gold, silver and copper.
- 20 4. Recording medium according to any one of the claims 1 to 3, characterized in that the inorganic material of the active layer (2) is a tellurium and zinc alloy comprising an atomic percentage of between 60% and 70% of zinc and between 30% and 40% of tellurium.
- 25 5. Recording medium according to claim 4, characterized in that the alloy comprises 65% of zinc and 35% of tellurium.
6. Recording medium according to one of the claims 4 and 5, characterized in that the active layer (2) has a thickness comprised between 15 nanometers and 50 nanometers.

7. Recording medium according to any one of the claims 1 to 6, characterized in that it comprises a semi-reflecting layer (7) arranged on the front face (3) of the active layer (2) and having a thickness comprised between 4 nanometers and 10 nanometers.

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8. Recording medium according to claim 7, characterized in that the semi-reflecting layer (7) is made of metal taken from the group comprising aluminium, gold, silver, copper, zinc, titanium, nickel and alloys thereof.

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9. Recording medium according to any one of the claims 1 to 8, characterized in that it comprises a protective layer (8) made of polymer material on the rear face (5).

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10. Recording medium according to claim 9, characterized in that the protective layer (8) is polydimethylsiloxane-based and has a thickness comprised between 10 micrometers and 100 micrometers.

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11. Recording medium according to one of the claims 9 and 10, characterized in that the protective layer (8) is deformable.